UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/687,699	10/12/2000	Shing Mark Lin	ADAPP171	7677

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EXAMINER
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ART UNIT	PAPER NUMBER
2189	5

DATE MAILED: 08/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *02 June 2003* .

2a) ☒ This action is **FINAL.**   2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-20* is/are pending in the application.

     4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-20* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on *12 October 2000* is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.

     If approved, corrected drawings are required in reply to this Office action.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a) ☐ All b) ☐ Some * c) ☐ None of:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

     a) ☐ The translation of the foreign language provisional application has been received.

15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .
4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: .

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Wakeley et al. (US Patent 6,463,498) in view of McCarty et al. (US Patent 5,954,796)

a. As per claim 1, Wakeley discloses a method for providing device information

using a Fibre Channel network, comprising the operations of: (col.25, lines 28-

38)

- obtaining device information for a device coupled to a Fibre Channel

   based network; (col.4, lines 34-42),

- constructing an address database (fig.3, 330), (col.4, lines 42-51) having a

   device entry for the device, wherein the device entry includes a port target

   identifier(fig.3, 316) and a logical unit identifier (fig.3, 318) and wherein the

   device entry associates the device information with the port target

   identifier and the logical unit identifier; (col.6, lines 61-67), (col.7, lines 1-6)

- receiving a request for the device information, wherein the request

   includes the port target identifier and the logical unit identifier; (col.7, lines

   6-40)

- returning the device information associated with the port target identifier and the logical unit identifier. (col.7, lines 6-40)

Wakeley discloses all the limitations as above except wherein the address database facilitates translation of operating system independent commands received by a Fibre Channel wrapper module into Fibre Channel commands usable by a Fibre Channel layer module that is in communication with a Fibre Channel controller. However, McCarty discloses for communicating between FC environment and OS-compatible communication interface to facilitates dynamic address changing of the FC devices which changing is transparent to the OS-compatible upper-level software structures. (col.4, lines 7-21)

It would have been obvious to one having ordinary skills in the art at the time the invention was made to incorporate McCarty's teaching into Wakeley's method to have address translation of operation system independent commands received by a Fibre Channel wrapper module into Fibre Channel commands usable by a Fibre Channel layer so as to have the ability of hot-plug and to provide for structures that would facilitate dynamic reconfiguration of the devices disposed in an FC environment. (col.1, lines 40-64)

b. As per claim 14, Wakeley discloses a computer program that provides device information using a Fibre Channel network, comprising:

- a code segment (fig.9, 911,912), (col.25, lines 3-6) that obtains device information for a device coupled to a Fibre Channel based network; (col.5, lines 52-55), (col.6, lines 4-5)

- a code segment (fig.9, 911,912) that constructs an address database having a device entry for the device, wherein the device entry includes a port target identifier and a logical unit identifier, and wherein the device entry associates the device information with the port target identifier and the logical unit identifier; (col.6, lines 61-67), (col.7, lines 1-6)

- a code segment (fig.9, 911,912) that receives a request for the device information, wherein the request includes the port target identifier and the logical unit identifier; and (col.7, lines 10-40)

- a code segment(fig.9, 911,912) that returns the device information, wherein the request includes the port target identifier and the logical unit identifier; (col.7, lines 10-40)

- a code segment(fig.9, 911,912) that returns the device information associated with the port target identifier and the logical unit identifier. (col.7, lines 10-40)

    Wakeley discloses all the limitations as above except wherein the address database facilitates translation of operating system independent commands received by a Fibre Channel wrapper module into Fibre Channel commands usable by a Fibre Channel layer module that is in communication with a Fibre Channel controller. However, McCarty

discloses for communicating between FC environment and OS-

compatible communication interface to facilitates dynamic address

changing of the FC devices which changing is transparent to the OS-

compatible upper-level software structures. (col.4, lines 7-21)

It would have been obvious to one having ordinary skills in the art

at the time the invention was made to incorporate McCarty's teaching into

Wakeley's method to have address translation of operation system

independent commands received by a Fibre Channel wrapper module into

Fibre Channel commands usable by a Fibre Channel layer so as to have

the ability of hot-plug and to provide for structures that would facilitate

dynamic reconfiguration of the devices disposed in an FC environment.

(col.1, lines 40-64)

b. As per claim 2, 15, 16, Wakeley discloses the device entry further associates

an Arbitrated Loop Physical Address (AL_PA) with the port target identifier and

the logical unit identifier. (col.18, lines 38-67)

c. As per claim 3, Wakeley discloses a method further comprising the operation

of returning the AL_PA associated with the port target identifier (fig.3, 316) and

the logical unit identifier (fig.3, 318) in response to the request. (col.18, lines 38-

67)

d. As per claims 4 and 17, Wakeley discloses the request is in the form of a SCSI

based Protocol Auto Configuration (PAC) command. (col.7, lines 6-40)

e. As per claims 5 and 18, Wakeley discloses the request is in the form of a SCSI

based Probe command. (col.7, lines 6-40)

f. As per claims 6 and 19, Wakeley discloses method further comprising the

operation of performing a lookup operation (fig.6A, 616) to obtain the device

information associated with the port target identifier and the logical unit identifier

utilizing the address database. (col.10, lines 21-40)

g. As per claims 7 and 20, Wakeley discloses the device information includes a

device type for the device. (col.8, lines 46-64)

h. As per claim 8, Wakeley discloses a system for providing device information

using Fibre Channel network, comprising:

- a Fibre Channel based network; (col.2, lines 13-16)

- a device entry further associates an Arbitrated Loop Physical

    Address (AL_PA) with the port target identifier and the logical unit

    identifier. (col.18, lines 38-67)

- an address database(fig.3,330) having a device entry for the

    device, wherein the device entry includes a port target

    identifier(fig.3, 316) and a logical unit identifier (fig.3, 318) and

    wherein the device entry associates the device information with the

    port target identifier and the logical unit identifier; (col.6, lines 61-

    67), (col.7, lines 1-6)

Wakeley discloses all the limitations as above except wherein the

address database facilitates translation of operating system independent

commands received by a Fibre Channel wrapper module into Fibre

Channel commands usable by a Fibre Channel layer module that is in

communication with a Fibre Channel controller. However, McCarty

discloses for communicating between FC environment and OS-

compatible communication interface to facilitates dynamic address

changing of the FC devices which changing is transparent to the OS-

compatible upper-level software structures. (col.4, lines 7-21)

It would have been obvious to one having ordinary skills in the art

at the time the invention was made to incorporate McCarty's teaching into

Wakeley's method to have address translation of operation system

independent commands received by a Fibre Channel wrapper module into

Fibre Channel commands usable by a Fibre Channel layer so as to have

the ability of hot-plug and to provide for structures that would facilitate

dynamic reconfiguration of the devices disposed in an FC environment.

(col.1, lines 40-64)

i. As per claim 9, Wakeley discloses the device entry further associates the

AL_PA with the port target identifier and the logical unit identifier. (col.18, lines

38-67)

j. As per claim 10, Wakeley discloses further comprising a Fibre Channel driver

(fig.8, 804) having a Fibre Channel Common Hardware Interface (FCHIM). (fig.8,

820) (col.4, lines 42-51), (col.6, lines 41-67), (col.7, lines 1-40)

k. As per claim 11, Wakeley discloses a system further comprising a SCSI based

application in communication with the Fibre Channel driver. (col.4, lines 42-51),

(col.6, lines 41-67), (col.7, lines 1-40), (col.8, lines 25-33)

l. As per claim 12, Wakeley discloses the SCSI based application passes a

request for device information to the Fibre Channel driver, the request including

the port target identifier and the logical unit identifier. (col.18, 38-67)

m. As per claim 13, Wakeley discloses the Fibre Channel driver returns the

device information based on the port target identifier and the logical unit identifier

using the address database. (col.6, lines 41-67), (col.7, lines 1-40)

Conclusion

3.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

-TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

4.   *Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (703)305-5384 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 8:30AM- 6:30PM.*

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815 or via e-mail addressed to [mark.rinehart@uspto.gov]. The fax phone numbers for the organization where this application or proceeding is assigned are (703)746-7249 for regular communications and (703)746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5631.

Kim Huynh

July 31, 2003
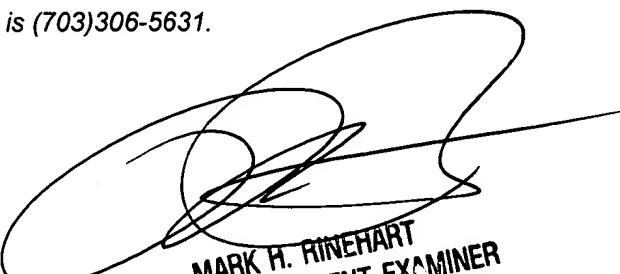
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